

Amendments To The Specification:

Please amend paragraphs 0034, 0035, 0039 and 0040 of the substitute specification as follows:

[0034] fig. 2 shows a diagrammatical illustration of a heat source, a boiler connected to the heat source to generate the steam medium, a turbine for expanding the steam flow, and a heat exchanger according to a particularly preferred embodiment with cooling medium routing and steam medium routing. Figure 3 shows the same cross section of the tube shown in figure 1 in the installed state according to another preferred embodiment.

[0035] Fig. 1 shows a heat exchanger tube 1 in the installed state in a heat exchanger, such as is shown diagrammatically in fig. 2. In the installed state, the particularly preferred embodiment, shown here, of the heat exchanger tube 1 provides a layer 7, 9 reducing an adhesion of a fluid to a surface 3, 5 of the heat exchanger tube 1. Certain embodiments contain a plurality of sublayers denoted 7a, 7b, 9a, and 9b. The heat exchanger tube 1 has a steam-side outer surface 3 on its outside 4 for action upon it by a steam medium 25 and a cooling-medium side inner surface 5 on its inside 6 for action upon it by a cooling medium 27. The outer surface 3 is provided with a first layer 7 reducing an adhesion of the steam medium to the outer surface 3. The inner surface 5 is provided with a second layer 9 reducing an adhesion of the cooling medium to the inner surface 5.

[00039] Within the framework of a modification, a heat exchanger tube may be coated, essentially by means of the same production method explained above, solely in the region 31 of its three-o' clock position up to the nine-o' clock position, as shown in figure 3, leaving region 32 uncoated. To be precise, it was shown that, in particular, the region around the six-o' clock position is particularly susceptible to corrosion and to encrustation in a heat exchanger tube. In particular, suspended substances often, for example, above all, during an emptying of the heat exchanger tube, remain in the region of the six-o' clock position on the inside of the heat exchanger tube. At least the region around the six-o' clock position, for example a 45°-angle region, a 90°-angle region, advantageously a 120° angle region and, in particular, a 180°-angle region or an in each case greater angle region, is provided with a layer within the framework of the modification.

[0040] Fig. 2 shows diagrammatically a heat source 28, a boiler 29 connected to the heat source to generate the steam medium 25, a turbine 30 for expanding the steam flow, and a heat exchanger 17 with cooling medium routing 19 and with steam routing 21. The cooling medium routing 19 has, for routing the cooling medium 27, a multiplicity of heat exchanger tubes 23 which are explained in more detail in fig. 1 and are shown merely diagrammatically in fig. 2. The cooling medium 27 is in this case routed on the inside 6 of the heat exchanger tubes 23. The steam routing 21 provides for the action of a steam medium 25 upon the outside 4 of the heat exchanger tubes 23.